

# CSA UNARMoured TRAY POWER, MULTI-CONDUCTOR, 1000V

Tray Power Control cables are suitable for use in ventilated, non-ventilated and ladder type cable trays, direct burial, raceways and for exposed or concealed wiring in wet, damp or dry locations in -40°C (-40°F) environments. Applicable for use in Utilities, Industrial and Commercial applications.

## VOLTAGE

1000V

Optional: 600/2000V

## PRODUCT CONSTRUCTION

### Insulation:

- XLPE (RW90 rated)  
rated: 90°C wet/105°C dry

### Shielding (foil-free edge):

- OS (optional)

### Jacket:

- FR PVC outer black jacket  
rated: 90°C to -40°C

### Available in:

- Custom insulation/jacket colours
- Composite constructions
- Aluminum conductors

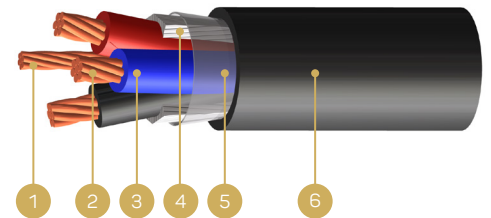
## CERTIFICATION/COMPLIANCES

- CSA C22.2 NO. 230, Tray Cables (TC)
- CSA C22.2 NO. 239, Control & Instrumentation Cables (Type C1C)
- CSA C22.2 NO. 38, Thermoset Insulated Wires & Cables (XLPE)
- CSA FT4, UL 1685 FT4, Vertical Tray Flame Test rated
- IEEE 383 & 1202 (70,000 BTU/hr), Vertical Flame Test rated
- ICEA T-30-520 (70,000 BTU/hr), Vertical Flame Test rated
- XLPE (RW90 rated), 90°C wet/ 105°C dry
- UV sunlight resistant "SUN RES" (all colours)
- Direct burial rated
- -40°C cold bend/impact rated
- Rated for use in hazardous locations:
  - Class 1 Zone 0 (Intrinsically Safe cables only)
  - Class I Zone 2 (Div 2)

## COLOR CODING

- 2C – Black & white
- 3C – Black, red & blue
- 4C – Black, red, blue & white
- 5C to 50C – Black # coded

## 1000 V VOLTAGE CSA Type TC POWER



1. Grounding/Bonding Conductor
2. Stranded Bare (ASTM B8) Annealed Copper Conductors
3. XLPE (RW90 Rated) Insulated Conductors
4. Polypropylene Fillers
5. Polyester Separator Tape
6. FR PVC Outer Protective Jacket

## STANDARDS:



| PART NUMBER     | NUMBER OF CONDUCTORS | CONDUCTOR SIZE | GROUND WIRE SIZE | NOMINAL DIAMETER OVERALL CABLE | CABLE WEIGHT         | AMPACITY       | MAX. PULLING TENSION (PULLING EYE) | MIN. BEND RADIUS (PULL) |
|-----------------|----------------------|----------------|------------------|--------------------------------|----------------------|----------------|------------------------------------|-------------------------|
|                 |                      | (AWG/MCM)      | (AWG/MCM)        | (in/mm)                        | (lbs/1000ft) (kg/km) | (30°C ambient) | (lb/kg)                            | (in/mm)                 |
| 4D010M140200000 | 2                    | 14             | 14               | 0.432 / 10.97                  | 97 / 144             | 25             | 66 / 30                            | 3.9 / 99                |
| 4S010M120200000 | 2                    | 12             | 14               | 0.468 / 11.89                  | 120 / 179            | 20             | 104 / 47                           | 4.2 / 107               |
| 4S010M100200000 | 2                    | 10             | 12               | 0.518 / 13.16                  | 162 / 241            | 30             | 166 / 75                           | 4.7 / 118               |
| 4D010M080200000 | 2                    | 8              | 10               | 0.606 / 15.39                  | 245 / 364            | 55             | 265 / 120                          | 5.5 / 139               |
| 4D010M060200000 | 2                    | 6              | 8                | 0.744 / 18.9                   | 371 / 552            | 75             | 419 / 190                          | 6.7 / 170               |
| 4D010M040200000 | 2                    | 4              | 8                | 0.838 / 21.29                  | 502 / 747            | 95             | 668 / 303                          | 7.5 / 192               |
| 4D010M030200000 | 2                    | 3              | 6                | 0.932 / 23.67                  | 654 / 973            | 115            | 842 / 382                          | 8.4 / 213               |
| 4D010M020200000 | 2                    | 2              | 6                | 0.994 / 25.25                  | 763 / 1135           | 130            | 1062 / 482                         | 8.9 / 227               |
| 4D010M010240000 | 2                    | 1              | 6                | 1.152 / 29.26                  | 959 / 1427           | 145            | 1339 / 607                         | 10.4 / 263              |
| 4D010M1/0240000 | 2                    | 1/0            | 6                | 1.232 / 31.29                  | 1120 / 1667          | 170            | 1690 / 766                         | 11.1 / 282              |
| 4D010M2/0240000 | 2                    | 2/0            | 6                | 1.318 / 33.48                  | 1338 / 1992          | 195            | 2130 / 966                         | 11.9 / 301              |
| 4D010M3/0240000 | 2                    | 3/0            | 4                | 1.42 / 36.07                   | 1648 / 2452          | 225            | 2671 / 1212                        | 12.8 / 325              |
| 4D010M4/0240000 | 2                    | 4/0            | 4                | 1.532 / 38.91                  | 1987 / 2957          | 260            | 3386 / 1536                        | 13.8 / 350              |
| 4D010M250260000 | 2                    | 250            | 4                | 1.664 / 42.27                  | 2290 / 3408          | 290            | 4000 / 1814                        | 15 / 380                |
| 4D010M300260000 | 2                    | 300            | 4                | 1.83 / 46.48                   | 2762 / 4110          | 320            | 4800 / 2177                        | 16.5 / 418              |
| 4D010M350260000 | 2                    | 350            | 3                | 1.93 / 49.02                   | 3175 / 4725          | 350            | 5600 / 2540                        | 17.4 / 441              |
| 4D010M500260000 | 2                    | 500            | 3                | 2.186 / 55.52                  | 4284 / 6375          | 430            | 8000 / 3629                        | 19.7 / 500              |
| 4D010M750260000 | 2                    | 750            | 2                | 2.544 / 64.62                  | 6150 / 9152          | 535            | 12000 / 5443                       | 22.9 / 582              |
| 4D010M140300000 | 3                    | 14             | 14               | 0.47 / 11.93                   | 119 / 177            | 25             | 99 / 45                            | 4.2 / 107               |
| 4S010M120300000 | 3                    | 12             | 14               | 0.51 / 12.95                   | 152 / 226            | 20             | 157 / 71                           | 4.6 / 117               |
| 4S010M100300000 | 3                    | 10             | 12               | 0.595 / 15.12                  | 223 / 332            | 30             | 249 / 113                          | 5.4 / 136               |
| 4D010M080300000 | 3                    | 8              | 10               | 0.66 / 16.76                   | 313 / 466            | 55             | 397 / 180                          | 5.9 / 151               |
| 4D010M060300000 | 3                    | 6              | 8                | 0.813 / 20.66                  | 481 / 716            | 75             | 629 / 285                          | 7.3 / 186               |
| 4D010M040300000 | 3                    | 4              | 8                | 0.93 / 23.63                   | 693 / 1032           | 95             | 1002 / 454                         | 8.4 / 213               |
| 4D010M030300000 | 3                    | 3              | 6                | 0.988 / 25.11                  | 845 / 1258           | 115            | 1263 / 573                         | 8.9 / 226               |
| 4D010M020300000 | 3                    | 2              | 6                | 1.055 / 26.8                   | 1005 / 1496          | 130            | 1593 / 723                         | 9.5 / 241               |
| 4D010M010340000 | 3                    | 1              | 6                | 1.225 / 31.11                  | 1264 / 1882          | 145            | 2009 / 911                         | 11 / 280                |
| 4D010M1/0340000 | 3                    | 1/0            | 6                | 1.311 / 33.3                   | 1498 / 2230          | 170            | 2534 / 1150                        | 11.8 / 300              |
| 4D010M2/0340000 | 3                    | 2/0            | 6                | 1.403 / 35.65                  | 1802 / 2681          | 195            | 3194 / 1449                        | 12.6 / 321              |
| 4D010M3/0340000 | 3                    | 3/0            | 4                | 1.513 / 38.43                  | 2239 / 3333          | 225            | 4007 / 1818                        | 13.6 / 346              |
| 4D010M4/0340000 | 3                    | 4/0            | 4                | 1.633 / 41.49                  | 2727 / 4058          | 260            | 5078 / 2304                        | 14.7 / 373              |
| 4D010M250360000 | 3                    | 250            | 4                | 1.835 / 46.62                  | 3238 / 4818          | 290            | 6000 / 2722                        | 16.5 / 420              |
| 4D010M300360000 | 3                    | 300            | 4                | 1.949 / 49.51                  | 3775 / 5618          | 320            | 7200 / 3266                        | 17.5 / 446              |
| 4D010M350360000 | 3                    | 350            | 3                | 2.057 / 52.24                  | 4355 / 6481          | 350            | 8400 / 3810                        | 18.5 / 470              |
| 4D010M500360000 | 3                    | 500            | 3                | 2.332 / 59.23                  | 5940 / 8839          | 430            | 12000 / 5443                       | 21 / 533                |
| 4D010M750360000 | 3                    | 750            | 3                | 2.717 / 69.01                  | 8586 / 12778         | 535            | 18000 / 8165                       | 24.5 / 621              |
| 4D010M140400000 | 4                    | 14             | 14               | 0.51 / 12.96                   | 143 / 213            | 25             | 132 / 60                           | 4.6 / 117               |
| 4S010M120400000 | 4                    | 12             | 14               | 0.585 / 14.86                  | 202 / 301            | 20             | 209 / 95                           | 5.3 / 134               |
| 4S010M100400000 | 4                    | 10             | 12               | 0.647 / 16.43                  | 274 / 407            | 30             | 332 / 151                          | 5.8 / 148               |
| 4D010M080400000 | 4                    | 8              | 10               | 0.719 / 18.26                  | 386 / 574            | 55             | 529 / 240                          | 6.5 / 164               |
| 4D010M060400000 | 4                    | 6              | 8                | 0.929 / 23.59                  | 631 / 939            | 75             | 839 / 380                          | 8.4 / 212               |
| 4D010M040400000 | 4                    | 4              | 8                | 1.045 / 26.56                  | 872 / 1298           | 95             | 1336 / 606                         | 9.4 / 239               |
| 4D010M030400000 | 4                    | 3              | 6                | 1.112 / 28.26                  | 1069 / 1590          | 115            | 1684 / 764                         | 10 / 254                |
| 4D010M020400000 | 4                    | 2              | 6                | 1.189 / 30.21                  | 1280 / 1904          | 130            | 2124 / 964                         | 10.7 / 272              |

\*Ampacity value based on Canadian Electrical Code, Version 2018, Table-2.

**FOR FURTHER INFORMATION, PLEASE CONTACT:**

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| PART NUMBER     | NUMBER OF CONDUCTORS | CONDUCTOR SIZE | GROUND WIRE SIZE | NOMINAL DIAMETER OVERALL CABLE | CABLE WEIGHT         | AMPACITY       | MAX. PULLING TENSION (PULLING EYE) | MIN. BEND RADIUS (PULL) |
|-----------------|----------------------|----------------|------------------|--------------------------------|----------------------|----------------|------------------------------------|-------------------------|
|                 |                      | (AWG/MCM)      | (AWG/MCM)        | (in/mm)                        | (lbs/1000ft) (kg/km) | (30°C ambient) | (lb/kg)                            | (in/mm)                 |
| 4D010M010440000 | 4                    | 1              | 6                | 1.351 / 34.32                  | 1614 / 2402          | 145            | 2678 / 1215                        | 12.2 / 309              |
| 4D010M1/0440000 | 4                    | 1/0            | 6                | 1.448 / 36.77                  | 1911 / 2844          | 170            | 3379 / 1533                        | 13 / 331                |
| 4D010M2/0440000 | 4                    | 2/0            | 6                | 1.551 / 39.4                   | 2339 / 3481          | 195            | 4259 / 1932                        | 14 / 355                |
| 4D010M3/0440000 | 4                    | 3/0            | 4                | 1.674 / 42.52                  | 2877 / 4282          | 225            | 5343 / 2423                        | 15.1 / 383              |
| 4D010M4/0440000 | 4                    | 4/0            | 4                | 1.869 / 47.48                  | 3632 / 5405          | 260            | 6771 / 3071                        | 16.8 / 427              |
| 4D010M250460000 | 4                    | 250            | 4                | 2.028 / 51.52                  | 4174 / 6212          | 290            | 8000 / 3629                        | 18.3 / 464              |
| 4D010M300460000 | 4                    | 300            | 4                | 2.156 / 54.76                  | 4899 / 7290          | 320            | 9600 / 4355                        | 19.4 / 493              |
| 4D010M350460000 | 4                    | 350            | 3                | 2.276 / 57.82                  | 5627 / 8374          | 350            | 11200 / 5080                       | 20.5 / 520              |
| 4D010M500460000 | 4                    | 500            | 3                | 2.585 / 65.66                  | 7737 / 11514         | 430            | 16000 / 7258                       | 23.3 / 591              |
| 4D010M750460000 | 4                    | 750            | 2                | 3.076 / 78.14                  | 11373 / 16925        | 535            | 24000 / 10886                      | 27.7 / 703              |

\*Ampacity value based on Canadian Electrical Code, Version 2018, Table-2. Ampacity of 4 conductors cable is based on 3 current-carrying conductors and 1 neutral.

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